PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PHNL040107WO	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/IB2005/050270	International filing date (day/month/year) 24 January 2005 (24.01.2005)	Priority date (day/month/year) 06 February 2004 (06.02.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.			

1.	1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet.			
	In the attached sheets, any referent to the international preliminary re		the International Searching Authority should be read as a reference er I) instead.	
3.	3. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. Π	Priority		
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention		
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter	national application	
	Box No. VIII	Certain observations on the	e international application	
4.			gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority	
			Date of issuance of this report 07 August 2006 (07.08.2006)	
	The International Burea 34, chemin des Color 1211 Geneva 20, Swi	mbettes	Authorized officer Cecile Chatel	
			e-mail: pt13@wipo.int	
	·			

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

REC'D' 14 APR 2005

From the		
INTERNATIONAL	SEARCHING	AUTHORITY

INTERNATIONAL SEARCHING AUTHORITY			WIPO	PCT
To:			PCT	
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43bis.1)	
	***************************************	Date of mailing (day/month/year) se	ee form PCT/ISA/210 (second	d sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER See paragraph 2 belo	_	
International application No.	International filing date (day/month/year)	Priority date (day/month/y	rear)
PCT/IB2005/050270	24.01.2005		06.02.2004	
International Patent Classification (IF G03B17/00, G02B3/14, G02F	•	and IPC		
Applicant KONINKI LIKE PHILIPS ELE	CTRONICS N V			

1.	This opinion contains indications relating to the following items:		
	☑ Box No. I	Basis of the opinion	
	☐ Box No. II	Priority	
	☐ Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	☐ Box No. IV	Lack of unity of invention	
	☑ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	☐ Box No. VI	Certain documents cited	
	☐ Box No. VII	Certain defects in the international application	
	☐ Box No. VIII	Certain observations on the international application	
2.	E. FURTHER ACTION		
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.		
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.		
	For further option	s, see Form PCT/ISA/220.	
3.	For further details	s, see notes to Form PCT/ISA/220.	

Name and mailing address of the ISA:

Authorized Officer



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050270

_	Вох	N	o. I Basis of the opinion	
1. With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item.				
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ader Rules 12.3 and 23.1(b)).	
2.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 			
a. type of material:				
			a sequence listing	
			table(s) related to the sequence listing	
b. format of material:				
			in written format	
			in computer readable form	
c. time of filing/f		me	of filing/furnishing:	
	E		contained in the international application as filed.	
			filed together with the international application in computer readable form.	
	Ε]	furnished subsequently to this Authority for the purposes of search.	
3.		has	addition, in the case that more than one version or copy of a sequence listing and/or table relating theret be been filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.	
4.	Add	itior	nal comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050270

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Inventive step (IS)

Yes: Claims

No:

1-17

Yes: Claims

Claims

1-17

No: Claims

Industrial applicability (IA)

Yes: Claims

1-17

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050270

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: US 2002/181126 A1 (NISHIOKA KIMIHIKO) 5 December 2002 (2002-12-05)

Document D1, which is considered to represent the most relevant state of the art, discloses a camera arrangement from which the subject-matter of claim differs in that the camera arrangement comprises integrally the at least two lenses and the photo sensor array in a fixed configuration and that the liquid-crystal lens has a lens-shaped surface defined by a polymer body.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT). Claim 7 further defines the process of forming the polymer body of the liquid crystal lens via polymerization of a monomer in a mould.

The problem to be solved by the present invention may be regarded as how to increase the compactness and ease of manufacturing of the camera assembly.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) as the integral unit solves the problem of compactness. Fabrication of the liquid-crystal lens by photopolymerization or heat-induced polymerization allows for a wide variety of lenses to be fabicated easily and that the lens can be <u>integrated</u> in a cell that is filled with liquid crystal molecules (description page 10, lines 26-33 and figure 7).

Claims 2-6 and 8-17 are dependent on claims 1 and 7 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050270

Re Item VIII

Certain observations on the international application

The application does not meet the requirements of Article 6 PCT, because claim 1 is not clear. The term 'integrally' is vague and unclear and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claim unclear, Article 6 PCT.